



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

7969-464

Date of Issuance:

3/17/21

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Finale® XL Herbicide

Name and Address of Registrant (include ZIP Code):

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709-3528

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Erik Kraft, Product Manager 24
Fungicide and Herbicide Branch, Registration Division (7505P)

Date:

3/17/21

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 7969-464.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 07/15/2020
- Alternate CSF 1 dated 07/15/2020
- Alternate CSF 2 dated 07/15/2020

If you have any questions, please contact Marc Sheahin by phone at 703-347-8639, or via email at sheahin.marc@epa.gov.

Enclosure

ACCEPTED
03/17/2021
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 7969-464

Glufosinate | **Group** **10** | **Herbicide**

Finale[®] XL

Herbicide

Alternate brand names: Finale[®] XL T&O Herbicide, Finale[®] XL F-VM Herbicide

For nonselective postemergence weed control on golf courses, and in landscaping, ornamentals, tree production, and vegetation management sites

Active Ingredient:

glufosinate-ammonium* 24.50%**

Other Ingredients: 75.50%

Total: 100.00%

* CAS Number 77182-82-2

** Equivalent to 2.34 pounds of active ingredient per U.S. gallon, formulated as a soluble concentrate

EPA Reg. No. 7969-XXX

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

See full label for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

FIRST AID

If in eyes	<ul style="list-style-type: none">• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on skin	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to by a poison control center or doctor.• DO NOT give anything by mouth to an unconscious person.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

NOTE TO PHYSICIAN: If this product is ingested, endotracheal intubation and gastric lavage must be performed as soon as possible, followed by charcoal and sodium sulfate administration. Additionally, call 1-800-832-HELP (4357) immediately for further information.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if swallowed.

DO NOT get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users must:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwater or rinsate. Glufosinate-ammonium and its degradates have properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

POLLINATOR ADVISORY. This product contains a herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to nontarget plants adjacent to the treated site that may serve as habitat or forage for pollinators.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at time of application.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Finale® XL herbicide is not for sale, distribution, or use in Nassau and Suffolk counties in New York State.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses; and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The applications for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS.

DO NOT enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage

DO NOT use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperature must not exceed 125° F. Protect against direct sunlight.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to take if material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

Use Sites

Finale® XL herbicide may be applied for control of emerged weeds to the following use sites, see the **Specific Use Site Instructions** section for details:

- Golf courses
- Native grass areas
- Dormant Bermudagrass
- Ornamental production nurseries (including greenhouses, lath houses, shade houses)
- Commercial, residential, and industrial landscaping and lawns
- Conifer and hardwood tree production areas, nurseries and plantations, including Christmas trees
- Vegetation management in noncropland areas

Product Information

Finale XL is a broad-spectrum, postemergence herbicide that contains the active ingredient glufosinate-ammonium.

Finale XL is a water-soluble concentrate for application as a foliar spray to control annual and perennial emerged broadleaves, grasses, and sedges. **Finale XL** also controls many terrestrial and riparian invasive and noxious weeds and controls or suppresses certain woody species (brush, trees, and vines) including conifers. **Finale XL** is nonselective and injures or kills green vegetation contacted by the spray.

Mode of Action

Glufosinate-ammonium, the active ingredient in **Finale XL**, is a **Group 10** herbicide and a potent inhibitor of glutamine synthetase.

Herbicide Resistance Management

Any weed population may contain or develop plants naturally resistant to this product. Weed species with resistant biotypes may eventually dominate the population if this herbicide is used repeatedly in the same area or in successive years as the primary method of control for the targeted species. Appropriate resistance-management strategies must be followed.

To delay herbicide resistance consider:

- Avoiding the consecutive use of **Finale XL**, or other glufosinate-containing products, on the same weed species over time.
- Using tank mixes or premixes with herbicides from different target-site-of-action groups as long as the involved products are all registered for the same use, have

different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.

- Basing herbicide use on a comprehensive Integrated Pest Management (IPM) program including cultural and mechanical weed control methods.
- Monitoring treated weed populations for loss of field efficacy and control of escapes with effective alternative herbicides or mechanical methods.
- Identify weeds present in the area through scouting and area history and understand their biology. The weed control program needs to consider all of the weeds present.
- Scout areas prior to application to identify the weeds present and their growth stage to determine if the intended application will be effective.
- Scout areas after application to verify the treatment was effective.
- Suspected herbicide resistant weeds may be identified by the following indicators:
 1. Failure to control a species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 2. A spreading patch of noncontrolled plants of a particular species; and
 3. Surviving plants mixed with controlled individuals of the same species
- If resistance is suspected, treat escapes with a herbicide with a different MOA and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM guidance for certain areas or specific weeds.
- Report any incidence of nonperformance of this product against a particular weed species or suspected weed resistance to your local extension specialist, certified crop advisor, BASF representative, or your **Finale XL** supplier.

Application Instructions

- Apply **Finale XL** to foliage of emerged weeds and woody (brush) species.
- Apply **Finale XL** in a single application or sequential applications.
- For best results, apply **Finale XL** under warm temperatures, high humidity, and bright sunlight.
- Weed control may be reduced when application is made when heavy dew, fog, and mist/rain are present, or to weeds under stress due to environmental conditions including drought, cool temperatures (below 50°F), or extended periods of cloudiness.
- Apply a higher rate of **Finale XL** for plant sizes listed (see **Use Rates** table) when vegetation cover is dense or when weeds are growing under stressed conditions or cool temperatures (below 50°F).
- **Finale XL** is rainfast between 30 minutes and 4 hours after application depending on weed species, application rate, and environmental conditions.

- Under active growing conditions, symptoms of **Finale® XL herbicide** application on treated plant material occur within 2 to 4 days after application.
- Regrowth may occur under certain conditions, including: weed growth stage at application, using less than the specified label rate, or environmental conditions.
- Delay seeding of turfgrasses for 7 days following **Finale XL** treatment.
- Plants may be safely transplanted into **Finale XL** treated areas after spray has dried.
- **Finale XL** may be applied by air or ground.

Application Methods and Equipment

Use and configure application equipment for spray volume, accurate and uniform distribution of spray droplets over the treated area, and to avoid spray drift to nontarget areas. Maintain continuous agitation during spraying with mechanical or bypass agitation. Avoid overlaps that will increase rates above use rates specified in this label.

For best results, apply **Finale XL** in spray volumes that ensure uniform and thorough coverage of target vegetation.

Thoroughly clean sprayer after each use.

Ground Application

- **Broadcast, Banded or Boom Spray.** Apply **Finale XL** at a minimum of 15 gallons of water per acre with spray pressure no more than is required for thorough target plant coverage.
- **Spot or Directed Spray.** Apply **Finale XL** with backpack, pump, or hydraulic sprayer to weeds or other undesirable foliage on a spray-to-wet basis. Ensure uniform and thorough coverage, but avoid applying beyond runoff.
- **Trimming and Edging.** When spraying **Finale XL** adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal to help prevent spray from contacting foliage of desirable plants.
- **Side Trimming.** Direct the **Finale XL** spray solution to thoroughly cover (spray-to-wet) only the portion of the plant to be controlled.
- **Broadcast Spray for Brush Control.** Apply **Finale XL** with ground equipment at spray volume depending on height and density of the brush (see following paragraphs).

Low volume brush application: Apply 20 to 50 gallons per acre when brush height is less than 6 feet and brush cover is less than 60% of the area.

High volume brush application: Apply 50 to 100 gallons per acre when spraying medium-to-high density vegetation.

- **Individual Plant Treatments (IPT).** Apply **Finale XL** utilizing a selective foliar application method that targets individual plants (e.g., herbaceous or woody weed species). The application spray volume needs to be adjusted to account for the height and density of target vegetation to ensure thorough and uniform coverage of the target plant. Higher spray volumes may be necessary for taller/

denser vegetation. Make IPT using backpack or hydraulic handgun equipment. Selectively wet all foliage on the target plant, starting at top of plant and covering all sides, but **DO NOT** drench target vegetation causing spray solution to run off. For best results, make IPT with an additive (see the **Tank Mixing Other Products and Additives** section for details).

Aerial Application

- **Broadcast Spray.** Apply **Finale XL** at a minimum of 15 gallons of water per acre. The spray volume per acre is determined by the equipment to ensure thorough spray coverage of target vegetation.
- **Helicopter Application Only.** Apply **Finale XL** at a minimum of 15 gallons of water per acre. The spray volume per acre is determined by the height and density of the target vegetation and equipment used. A drift control device or drift control system may be used when applying to areas near desirable (susceptible) plants.

Mandatory Spray Drift Mitigation

Aerial Applications

- **DO NOT** release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- The spray boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- Applicators are required to select nozzles that deliver a medium to coarse spray droplet size (ASABE S572.1).
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speed exceeds 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or vegetative canopy, unless necessitated by application equipment.
- Applicators are required to select nozzles that deliver a medium to coarse spray droplet size (ASABE S572.1).
- **DO NOT** apply when wind speed exceeds 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Spray Drift Advisory

The applicator is responsible for avoiding off-site spray drift. Be aware of nearby nontarget sites and environmental conditions.

Importance of Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if application is made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

Volume. Increasing the spray volume so larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

Pressure. Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

Spray Nozzle. Use a spray nozzle designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

Adjust Nozzles. Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, orient nozzles parallel with the airflow in flight.

Boom Height - Ground Boom

Use the lowest boom height compatible with the spray nozzles that will provide thorough and uniform coverage. The boom must remain level with the vegetation canopy and have minimal bounce.

Release Height - Aircraft

Higher release heights increase the potential for spray drift.

Temperature and Humidity

When applying in hot and dry conditions, use larger droplets to reduce effects of evaporation.

Temperature Inversion

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light-to-no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid application during temperature inversions.

Wind

Drift potential generally increases with wind speed. Avoid applications during gusty wind conditions. Applicators must be familiar with local wind patterns and terrain that could affect spray drift.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that shields are not interfering with uniform deposition of spray on the target area.

Use Restrictions for All Labeled Uses

- Grazing of vegetation treated with **Finale® XL herbicide** is prohibited for one year after treatment.
- **DO NOT** apply directly or allow drift to contact desirable green tissue, or green, thin, or uncalloused bark of desirable vegetation.
- **DO NOT** apply this product through any type of irrigation system.

Use Site	Application Method	Maximum Single Application Rate	Maximum Annual Application Rate	Maximum Number of Application Per Year*	Minimum Retreatment Interval (days)
Golf Course Maintenance and Landscaping; Native Grass Areas; Ornamentals; Commercial, Residential, and Industrial Landscaping; Conifer and Hardwood Tree Production Areas, Nurseries, and Plantations, including Christmas Trees; Vegetation Control and Management in Noncropland Areas	Broadcast	82 fl ozs/A (1.5 lbs ai/A)	246 fl ozs/A (4.5 lbs ai/A)	3	5
	Spot	3.2 fl ozs per gallon of spray (0.058 lb ai)			
Dormant Bermudagrass	Broadcast	82 fl ozs/A (1.5 lbs ai/A)	246 fl ozs/A (4.5 lbs ai/A)	3	5
	Spot	3.2 fl ozs per gallon of spray (0.058 lb ai)			

*When using the maximum single application rate (excluding spot treatments).

Tank Mixing Other Products and Additives

It is the pesticide user's responsibility to ensure that all products in the mixtures are registered for the intended use. Read and follow the applicable restrictions and

precautions and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Finale® XL herbicide may be tank mixed or applied sequentially with other herbicide products registered for use in any use site found in this label. Refer to the tank mix product labels to confirm that the respective tank mix products are registered for the intended use. Read and follow the specific tank mixing instructions on this label and respective product labels.

Finale XL may be tank mixed with one or more pre-emergence herbicide(s) for residual control of emerging underground reproductive plant parts or weed seeds, as well as vegetative growth from previously treated plants.

Additives

Addition of nonionic antifoaming agent may reduce foaming, especially when using soft water.

Spray drift control additives may be used; read and follow all directions and precautions as specified on the drift control additive label.

Ammonium sulfate (AMS), methylated seed oil (MSO), or non-ionic surfactant (NIS) may be added for foliar applications.

For optimum burndown activity with **Finale XL** and to achieve consistent weed control in postemergence use patterns, an adjuvant system may be used that includes any of the following:

Additive/Adjuvant	Rate
AMS (spray grade)	2 to 4 lbs/A
plus one of the following	
MSO	1% volume/volume (v/v)
or	
NIS	0.25% v/v

Compatibility Test for Tank Mixing Other Products and Additives

Before tank mixing components, always perform a compatibility jar test.

- In a clear glass jar, add components in the order listed.
- Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids, and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
- After all components have been added, cap jar, tighten lid, and invert ten cycles to mix.
- Let solution in jar stand for 15 minutes.
- Evaluate** the solution for uniformity and stability. Look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. If the tank mix partners are not compatible, **DO NOT** use the mixture in any spray solution that could clog spray nozzles.

Mixing Order

Make sure each component is thoroughly mixed and suspended before adding tank mix partners. Maintain

constant agitation during mixing and application until spraying is completed.

- Start with calibrated and clean equipment.
- Fill the spray tank half full with water.
- Start agitation.
- If mixing with a flowable/wettable powder tank mix partner prepare a slurry of the appropriate amount of the product in a small amount of water. Add the slurry to the spray tank.
- Add ammonium sulfate (AMS) to the spray tank if needed.
- If mixing with a liquid tank mix partner, add the liquid mix partner next.
- Complete filling the spray tank with water **before adding Finale XL, because foaming may occur.**
- Add **Finale XL** when tank is full and continue agitation.
- If foaming occurs, use a silicone-based **antifoaming agent.**

If the spray mixture is allowed to settle for any period of time, thorough agitation is required to resuspend the mixture before spraying is resumed. Maintain constant agitation while spraying.

Use Rates

Weed Size and Growth Stage	Broadcast Rate of Finale XL (fl ozs/A)	Spot Spray Rate of Finale XL (% solution)
Weeds < 3 inches in diameter or height	27 to 41	0.4 to 0.6
Weeds < 6 inches in diameter or height, pre-tiller grasses	41 to 55	0.6 to 1.0
Weeds ≥ 6 inches in diameter or height, tillered grasses	55 to 82	1.0 to 1.25
Weeds > 8 inches in diameter or height	82	1.25
Brush	27 to 82	0.4 to 1.25
Volunteer conifer	55	1.0

Rate of Finale XL (fl ozs/A)	Glufosinate Rate Equivalency (lbs ai/A)
27	0.5
41	0.75
55	1.0
82	1.5
246	4.5

Spot Spray Dilution. Amount of **Finale XL** added to water to make 1 to 100 gallons of spot spray solution at dosages of 0.4% to 2.5% solution.

Desired % Solution (v/v)	Volume of Spot Spray Solution				
	1 gallon	10 gallons	25 gallons	50 gallons	100 gallons
	Amount of Finale® XL herbicide				
0.4%	0.5 fl oz	5 fl ozs	12.8 fl ozs	0.8 quart	0.4 gallon
0.6%	0.75 fl oz	7.7 fl ozs	19.2 fl ozs	1.2 quarts	0.6 gallon
0.8%	1.0 fl oz	10.25 fl ozs	25.6 fl ozs	1.6 quarts	0.8 gallon
1.0%	1.25 fl ozs	12.8 fl ozs	32 fl ozs	2 quarts	1 gallon
1.25%	1.6 fl ozs	16 fl ozs	40 fl ozs	2.5 quarts	1.25 gallons
2.5%*	3.2 fl ozs	32 fl ozs	80 fl ozs	5 quarts	2.5 gallons

* Spot treatment rate for Individual Plant Treatment applications only.

Weeds Controlled

For postemergence control of emerged weeds listed in the following tables, apply **Finale XL** at the rates for broadcast or spot applications based on weed size and growth stage.

Broadleaf Weeds Controlled

Common Name	Scientific Name
Bindweed	<i>Convolvulus</i> spp.
Buckwheat, wild	<i>Polygonum convolvulus</i>
Buffalobur	<i>Solanum rostratum</i>
Burdock, common	<i>Arctium minus</i>
Chickweed, common	<i>Stellaria media</i>
Clover, white	<i>Trifolium repens</i>
Cocklebur, common	<i>Xanthium strumarium</i>
Dandelion, common	<i>Taraxacum officinale</i>
Dock, curly	<i>Rumex crispus</i>
Dogbane, hemp	<i>Apocynum cannabinum</i>
Filaree, redstem	<i>Erodium cicutarium</i>
Fleabane	<i>Erigeron</i> spp.
Goldenrod	<i>Solidago</i> spp.
Gromwell, field or corn[**]	<i>Buglossoides arvensis</i>
Henbit	<i>Lamium amplexicaule</i>
Horsetail, field	<i>Equisetum arvensis</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium</i> spp.
Lettuce, prickly	<i>Lactuca scariola</i>
Mallow, little (cheeseweed)	<i>Malva parviflora</i>

(continued)

Broadleaf Weeds Controlled (continued)

Common Name	Scientific Name
Marestail (horseweed)	<i>Conyza canadensis</i>
Mugwort	<i>Artemisia vulgaris</i>
Mullein	<i>Verbascum</i> spp.
Mustard, tansy (flixweed)[**]	<i>Descurainia sophia</i>
Mustard, wild	<i>Sinapis arvensis</i>
Nettle	<i>Urtica</i> spp.
Nightshade	<i>Solanum</i> spp.
Onion, wild	<i>Allium canadense</i>
Pennycress, field	<i>Thlaspi arvense</i>
Pigweed	<i>Amaranthus</i> spp.
Plantain	<i>Plantago</i> spp.
Pokeweed, common	<i>Phytolacca americana</i>
Purslane, common	<i>Portulaca oleracea</i>
Ragweed	<i>Ambrosia</i> spp.
Rocket, London	<i>Sisymbrium irio</i>
Rocket, yellow	<i>Barbarea vulgaris</i>
Rose, wild[**]	<i>Rosa</i> spp.
Shepherd's purse	<i>Capsella bursa-pastoris</i>
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Sowthistle, annual	<i>Sonchus oleraceus</i>
Spurge, leafy	<i>Euphorbia esula</i>
Thistle, Canada	<i>Cirsium arvense</i>
Thistle, musk	<i>Carduus nutans</i>
Thistle, Russian	<i>Salsola iberica</i>
Turnip, wild (wild radish)	<i>Raphanus raphanistrum</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Vervain	<i>Verbena</i> spp.
Virginia copperleaf	<i>Acalypha virginica</i>
White heath aster	<i>Erigeron</i> spp.
Woodsorrel	<i>Oxalis</i> spp.

Grass Weeds and Sedges Controlled

Common Name	Scientific Name
Bahiagrass	<i>Paspalum notatum</i>
Barley	<i>Hordeum</i> spp.
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bermudagrass[**]	<i>Cynodon dactylon</i>
Bluegrass, annual	<i>Poa annua</i>
Bluegrass, Kentucky	<i>Poa pratensis</i>
Brome, downy	<i>Bromus tectorum</i>
Brome, smooth	<i>Bromus inermis</i>
Carpetgrass	<i>Axonopus affinis</i>

(continued)

Grass Weeds and Sedges Controlled *(continued)*

Common Name	Scientific Name
Crabgrass	<i>Digitaria</i> spp.
Cupgrass, woolly	<i>Eriochloa acuminata</i>
Dallisgrass	<i>Paspalum dilatatum</i>
Fescue	<i>Festuca</i> spp.
Foxtail, giant	<i>Setaria faberi</i>
Foxtail, green	<i>Setaria viridis</i>
Foxtail, yellow	<i>Setaria pumila</i>
Goosegrass	<i>Eleusine indica</i>
Guineagrass	<i>Urochloa maxima</i>
Johnsongrass (rhizome)[*]	<i>Sorghum halepense</i>
Lovegrass	<i>Eragrostis</i> spp.
Nutsedge	<i>Cyperus</i> spp.
Panicum, fall	<i>Panicum dichotomiflorum</i>
Para grass	<i>Urochloa mutica</i>
Quackgrass	<i>Elymus repens</i>
Ryegrass	<i>Lolium</i> spp.
Sandbur	<i>Cenchrus</i> spp.
Shattercane	<i>Sorghum bicolor</i> spp. <i>arundinaceum</i>
Signalgrass[*]	<i>Urochloa</i> spp.
Sprangletop	<i>Leptochloa</i> spp.
Stinkgrass	<i>Eragrostis cilianensis</i>
Torpedograss	<i>Panicum repens</i>
Vaseygrass	<i>Paspalum urvillei</i>
Wheat, volunteer	<i>Triticum aestivum</i>
Wild oat	<i>Avena fatua</i>
Windgrass, common	<i>Apera spica-venti</i>

[Optional text in brackets]

* Minimum rate in California for control is broadcast 41 fl ozs/A or spot 0.6% solution of **Finale[®] XL herbicide**.

** Minimum rate in California for control is broadcast 55 flozs/A or spot 1.0% solution of **Finale XL** for weeds < 6 inches and broadcast 82 fl ozs/A or spot 1.25% solution of **Finale XL** for weeds ≥ 6 inches.

Brush^{1,2} Species Suppressed or Controlled

Common Name	Scientific Name
Blackberry	<i>Rubus</i> spp.
Cedar, western red ²	<i>Thuja plicata</i>
Deerbrush	<i>Ceanothus integerrimus</i>
Douglas fir ²	<i>Abies</i> spp.
Elm ²	<i>Ulmus</i> spp.
Gallberry	<i>Ilex</i> spp.
Hazel	<i>Corylus</i> spp.

(continued)

Brush^{1,2} Species Suppressed or Controlled *(continued)*

Common Name	Scientific Name
Honeysuckle	<i>Lonicera</i> spp.
Huckleberry	<i>Gaylussacia</i> spp.; <i>Vaccinium</i> spp.
Maple	<i>Acer</i> spp.
Multiflora rose	<i>Rosa multiflora</i>
Oak ²	<i>Quercus</i> spp.
Pine ²	<i>Pinus</i> spp.
Poison ivy	<i>Toxicodendron radicans</i>
Poison oak	<i>Toxicodendron toxicarium</i>
Roundleaf greenbrier	<i>Smilax rotundifolia</i>
Salmonberry	<i>Rubus spectabilis</i>
Sumac	<i>Rhus typhina</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Thimbleberry	<i>Rubus parviflorus</i>
Trumpet creeper	<i>Campsis radicans</i>
Vine maple	<i>Acer circinatum</i>

¹ Not for use on brush in California.

² Apply higher rates of Finale XL:

- for hard-to-control woody plants including elm, certain oaks, or when plant leaf surfaces have hardened off; or tank mix **Finale XL** with other herbicides registered for control of these woody plants.
- when conditions are not optimum for thorough spray coverage, including when weed growth is heavy or dense.

² Apply lower rates of Finale XL when:

- target species is conifer.
- vegetation growth conditions allow for uniform spray coverage.

Specific Use Site Instructions

Golf Course Maintenance and Landscaping

Finale XL may be used for trimming (including side) and edging on golf courses along cart paths; around tee box signs, ball washers, light posts, sign posts, and sand traps; and in landscape areas including around individual trees and shrubs, landscape beds, mulched areas, club-houses, buildings, foundations, fences, driveways, paths, parking areas, and sidewalks. When spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal to help prevent spray from contacting foliage of desirable plants.

Finale XL may be used to establish and maintain native grass and natural areas on golf courses. Apply **Finale XL** as a postemergence broadcast or spot application for nonselective broadleaf weed control in native grass areas and unimproved turf.

Native Grass Areas

Finale® XL herbicide may be used to establish and maintain native grass and natural areas including wildlife management areas, wildlife openings, wildlife food plots, wildlife habitats, habitat restoration areas, and conservation reserve program (CRP) areas. [*Optional text: Not for use in California.*]

Apply **Finale XL** only as a spot or IPT application for selective weed control in native grass areas and unimproved turf.

Dormant Bermudagrass

Finale XL may be used to control winter annual weeds in well-established dormant hybrid or common Bermudagrass grown on athletic fields, home lawns, golf courses, or in unimproved, dormant roadside Bermudagrass turf. Apply only when Bermudagrass is fully dormant and before spring greenup or severe turfgrass injury or delayed greenup may occur. For best results, apply **Finale XL** after most weeds have germinated and are in an early growth stage. Applications of **Finale XL** may also be used to suppress or control undesirable perennial weeds. Avoid high volume and spot applications when spray volume exceeds 80 gallons per acre or injury or delayed greenup can occur. Apply **Finale XL** in a single application or sequentially if follow-up applications are necessary. Apply up to three times per year but **DO NOT** apply cumulatively more than 246 fl ozs of **Finale XL** per acre per year for this use.

Ornamentals

Apply **Finale XL** for the control of undesirable vegetation in ornamental production during bed preparation before planting; around and within shade houses, lath houses, and/or greenhouses; as a directed spray around containers and field-grown established ornamentals and ornamental gardens; and for nursery maintenance.

Finale XL may be applied around nonbearing fruit and nut trees, vines, brambles, and bushberries grown in commercial ornamental production nurseries. Immature and/or inedible fruits may appear and are not intended for harvest or consumption.

Planting Bed Preparation Application. Apply **Finale XL** as a broadcast application targeting emerged weeds during preplant bed preparation for new ornamental plantings and production. Ornamentals may be planted into the treated area after the restricted-entry interval (REI) of 12 hours.

Directed Spray Application. Apply **Finale XL** postemergence-directed as a broadcast, banded, or spot spray application to control emerged weeds in/around field-grown woody plants and trees, between and/or around containers, and in/around ornamental gardens.

DO NOT make an over-the-top application to ornamentals or severe injury will occur.

DO NOT apply directly to or allow spray drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or severe injury will occur.

Greenhouse, Lath House, and Shade House Applications. Apply **Finale XL** to control emerged weeds in greenhouses, lath houses, and shade houses. **Air circulation fans must be turned off during application.** Apply **Finale XL** as a directed spray, using large droplet and low-pressure type nozzles. **DO NOT drift or directly contact desirable vegetation, especially edible crops.**

Nursery Maintenance. Apply **Finale XL** for nursery maintenance in areas where ornamental plants are not currently being grown, including gravel or stone pathways, roads within the nursery, dry irrigation ditches and/or ditch-banks, unused gravel pads within nursery blocks, or nursery pads not currently in production, and around greenhouses, lath houses, and shade houses.

Side Trimming. Direct the **Finale XL** spray solution to thoroughly cover (spray-to-wet) only the portion of the plant to be controlled.

Commercial, Residential, and Industrial Landscaping

Finale XL may be used for trimming (including side) and edging commercial and/or residential landscape areas including around individual trees and shrubs, landscape beds, mulched areas, home foundations, garages, buildings, fences, driveways, parking areas, sidewalks, yard ornaments, mail boxes, light posts, walking paths, patios, and industrial landscapes and landscaped highway medians, interchanges, embankments, and buffer areas where perennial plants are established. When spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal to help prevent spray from contacting foliage of desirable plants.

Finale XL may be applied around nonbearing fruit and nut trees, vines, and bushberries grown in commercial, residential, or industrial areas. Immature and/or inedible fruits may appear and are not intended for harvest or consumption.

Apply **Finale XL** postemergence-directed as a broadcast, banded, or spot spray application around established trees and/or woody shrubs while targeting emerged weeds.

DO NOT make an over-the-top application to any desirable landscape vegetation or severe injury will occur.

DO NOT apply directly to or allow spray drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or severe injury will occur.

Commercial, Residential, and Industrial Lawns

Only apply **Finale® XL herbicide** as a spot treatment in lawns at a 1.25% volume/volume solution. The application rate must not exceed the broadcast equivalent of 1.7 fl ozs of **Finale XL** per gallon of water/1,000 sq ft (corresponding to a rate of 0.0312 lb ai/1,000 sq ft). Apply to Bermudagrass lawns when the weather is cool and Bermudagrass is dormant. **DO NOT** apply **Finale XL** to actively growing turfgrass or severe injury or plant death will occur.

Conifer and Hardwood Tree Production Areas, Nurseries, and Plantations, including Christmas Trees

Apply **Finale XL** to control volunteer conifers and other undesirable plants during site preparation operations before planting and establishment of conifer and hardwood tree productions areas, nurseries, and plantations, including Christmas trees; or as an understory application below the tree canopy of established conifers and hardwoods.

DO NOT apply **Finale XL** as an over-the-top broadcast spray to desirable tree plantings (including Christmas trees) or severe injury will occur.

DO NOT apply directly to or allow spray drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable trees, including Christmas trees, or severe injury will occur.

Site Preparation Application. Apply **Finale XL** as a broadcast application during preplant site preparation for control of volunteer conifers and other undesirable plants, and for enhanced brownout with other site-preparation tank mixes. Seedling trees may be planted into the treated area after the restricted-entry interval (REI) of 12 hours.

Volunteer Conifer Control. For best control of volunteer conifer, apply **Finale XL** as a foliar application in the spring, summer, and early fall when volunteer conifer seedlings are actively growing. Mid-to-late fall applications to volunteer conifer that are slowing their growth may not provide consistent control.

Understory Application in Established Plantations. Apply **Finale XL** postemergence-directed as a broadcast, banded, or spot spray application below the canopy of established conifer or hardwood plantings for control of targeted emerged weeds and/or other undesirable vegetation.

Directed Spray Application in Christmas Tree Plantations. Apply **Finale XL** postemergence-directed as a broadcast, banded, or spot spray application at the base of or around trees and/or in-between rows when targeting emerged weeds.

Vegetation Control and Management in Noncropland Areas

Apply **Finale XL** for nonselective weed and/or brush control in and/or around to the following uncultivated noncropland areas where vegetation control and/or management is needed to maintain the site(s):

Airports, airfields, terminals
Alleys
Athletic fields
Bareground areas
Barns
Barrier strips
Beaches (not for use in California)
Campgrounds
Canals (dry)
Cemeteries
Commercial sites including retail centers, strip malls, shopping malls, office buildings, plants
Construction sites
Ditchbanks
Ditches (dry)
Drive-in theaters
Educational facilities
Farmstead and ranch areas (barnyards, buildings and out-buildings, driveways, lanes, facilities, farmyards, foundations, machinery or implement yards, windbreaks, shelterbelts, uncropped areas, fallow areas, runoff areas)
Fences, fencelines, boarder fencing, fence rows
Fire breaks, fire rehabilitation areas
Fuel storage areas
Government and military installations including bases, airports, ranges (all types)
Grain facilities
Gravel yards, pits
Hardscapes
Industrial sites, plants, and areas
Landfill sites
Livestock facilities
Lumberyards, storage yards
Manufacturing plants/sites
Mines (all types) and mine reclamation areas
Municipal sites
Natural areas including parks (national, state, county, city)
Nonfood cropland areas
Nuclear plant sites
Office buildings
Parking lots/areas/lanes
Pathways
Paved areas
Pipelines
Power plants/stations (including nuclear plant sites)
Prairies
Prisons and correctional facilities
Private and public managed lands including Bureau of Land Management grounds, national parks and forests, public managed grounds and areas
Pumping stations or installations

Railroads, rail yards, rail crossings, rail lines of sight, rail rights-of-way
 Recreational areas and open spaces including campgrounds, parks, restoration areas, RV camping/parking areas, hunting grounds, sports areas, off-road transportation paths/trails, natural areas, tennis courts
 Refineries
 Resorts
 Roadways/roadsides/highways including interstate highways (federal, state, city and county), expressways, tollways, access roads, entrance/exit ramps, aprons, medians, guardrails, rest areas, rights-of-way
 Roof-top plantings
 Schools
 Sewage disposal areas
 Sidewalks
 Sod farms
 Solar farms
 Sports and motorsports complexes
 Storage shed sites
 Tank farms (chemical, industrial, petroleum, water)
 Trails and trailheads, hiking paths
 Transected grazed areas (only when using IPT as described following)
 Transitional areas between upland and lowland sites (when dry)
 Utility buildings, plant sites, substations
 Utility rights-of-way (electrical, pipeline, telephone)
 Vacant lots
 Walkways
 Warehouses
 Waste disposal sites, wastelands
 Water towers
 Wayside structures
 Wetlands (seasonally dry with intermittingly flooded low lying areas including flood plains, deltas, marshes, swamps, bogs but not applied to standing water)
 Wildlife areas (management, opening, habitats)
 Wind farms, wind turbine stations

Apply **Finale® XL herbicide** as a broadcast or spot spray application for control of herbaceous and woody weed species. Make foliar applications in the spring, summer, and early fall when undesirable vegetation is actively growing. Mid-to-late fall applications to vegetation that is slowing growth may not provide consistent control.

Individual Plant Treatments (IPT) in Transected Grazed Areas. Apply **Finale XL** only as an IPT for vegetation management in noncropland sites that transect areas grazed by livestock. Target only individual undesirable weedy herbaceous and woody plant (brush) species. Apply **Finale XL** at rates of 0.8% to 2.5% volume/volume. **Finale XL** can be tank-mixed with other herbicides registered for control of the target weed. **DO NOT** apply as a broadcast spray on sites that transect grazed areas. There are no grazing restrictions where **Finale XL** is applied as an IPT to treat undesirable plants.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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Note to PM/reviewer: Making the product more restrictive than Federally accepted, incorporating the optional statement "Not for Use in California" may be included on the container label for any use, weed, or crop as determined to be necessary to secure Ca-DPR registration.

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We create chemistry